Position Location: Orlando
Position title: Manufacturing Engineer / Optical Fabrication / Custom Optics / Orlando, FL
https://www.lockheedmartinjobs.com/job/orlando/manufacturing-engineer-optical-fabrication-custom-optics-2nd-shift-orlando-fl/694/13504215

Description:
Lockheed Martin's Missiles and Fire Control business area is experiencing some substantial growth at our campus in sunny Orlando, FL. We are seeking a Manufacturing Engineer to join our team. From ultra-precision machining and additive manufacturing to the development and production of complex optical components and sophisticated electronic systems, Lockheed Martin Missiles and Fire Control (MFC) utilizes the latest capabilities in manufacturing to produce some of the world's most advanced weapon and sensor technology.

The Manufacturing Engineer will work in a fast-paced production environment supporting manufacture of cutting edge optical components using advanced manufacturing equipment and technology. This exciting work will include the opportunity to work hands on with products and provide technical guidance and support to optical operators to facilitate optimal performance.

- The engineer will develop and sustain manufacturing processes supporting complex customer requirements. The engineer will be responsible for providing production support to both single point diamond turning processes and optical fabrication processes.
- The engineer will be responsible for setup R&D prototype builds on custom Optics manufacturing machinery.
- The engineer will assist with capital improvement projects to include new systems identification, acquisition, and integration into production lines.
- The engineer will have the opportunity to participate in manufacturing technology research and development projects supporting next generation optical systems.
  The engineer will develop and modify work instructions and design and fabricate tooling used by our technicians and operators.
- The engineer will apply lean manufacturing techniques to reduce overall cost and increase production yields.
- The engineer will routinely have the opportunity to investigate root cause of failures / defects and will implement corrective action to support continuous improvement.
- The engineer will support and have opportunity to lead non-recurring projects through the entire lifecycle from design and prototype through production.
- The engineer will interact with optical design engineers to support producibility assessments of current and future products.
- The engineer will have the opportunity to stay up-to-date on the latest advancements and best practices in the field of optics manufacturing.

Our role will have unique hours due to the high level of activity going on in our business. The engineer will start their second shift at 1:00 PM and will have to opportunity to overlap with first and second shift technicians and first shift engineers as well as our second shift engineering team. The engineer will train for a few months during dayshift hours and will move to our second shift once she/he is sufficiently proficient. At some point in the future the engineer may have an opportunity to move to a day shift role if business needs are conducive to that.

This position will offer the opportunity for occasional domestic travel.
We offer a continuous learning environment with strong career growth and advancement opportunities. Please consider joining our Missiles and Fire Control's Advanced Manufacturing Engineering team and take a step toward solving complex challenges and changing the world at the same time.

Relocation: Relocation assistance is possible for this exciting position.

Basic Qualifications:

- Basic Qualifications for this position will include a BS Degree in Mechanical Engineering, Optical Engineering, Materials Science, Physics, Chemical Engineering or closely related technical field and 2 years of professional level experience. A technical masters' degree in Optics or closely related field and academic experience can also meet our basic qualifications.
- This position requires skills and/or career or academic experience with Optics Fabrication or with Single Point Diamond Turning (SBDT) or similar career or academic precision machining/metrology or fabrication experience. Candidates with the above mentioned Optics Fabrication or single point diamond turning specialization will have skills, career or academic experience and/or course work that includes the design, manufacturing and metrology of optical or similar components.
- The ability to troubleshoot problems and develop solutions for complex problems is required.
- The ability to write and perform experiments, record and analyze data is required.
- Strong verbal & written communications skills are required.
- The ability to work effectively as an individual and in a team environment is required.
- Strong Microsoft Office software proficiency is required.
- Strong analytical skills are required.
- The ability to obtain a U.S. Security Clearance is required.

Desired Skills:

- An MS level technical degree in Mechanical Engineering, Optical Engineering, Materials Science, Physics, Chemical Engineering or related technical field may be desirable.
- An interest in manufacturing custom optics is highly desirable.

- Knowledge of spherical and aspherical surface generating, grinding, polishing, edging, single point diamond turning, profilometry and interferometry is desired.
- Experience working in a production environment would be a plus.
- Knowledge of optical freeform fabrication, slow tool and fast tool servo techniques and MagnetoRheological Finishing (MRF) processes would be a plus.
- Additional desired skills include the use advanced optical metrology, including the use of Computer Generated Holograms (CGH) and/or stitching interferometry for aspheric surface metrology, white light interferometry for non-contact surface profiling, and high precision contact profilometry.
- Knowledge of relevant military and ISO optical specifications is desired.

The Locale: Orlando is a city in the Central Florida area. This region is a great place to live and to raise a family. Central Florida offers lots of attractive residential housing options. The Greater Orlando metropolitan area is the sixth largest metro area in the southeastern United States. The climate here is warm and sunny all year long for the most part. Orlando is home to Walt Disney World, Universal Studios Florida, and SeaWorld. Orlando is also home to the second largest University in the US, the University of Central Florida (UCF). Where can you get to from Orlando? Orlando is about an hour's drive from Cocoa Beach and the "space coast" to include NASA and the Kennedy Space Center. Tampa is about 1.5 hours from Orlando. West Palm Beach is about 2.5 hours to the south and Jacksonville is about 2 hours to the northeast. Atlanta, GA is 6 hours to the northwest.

Lockheed Martin is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, pregnancy, sexual orientation, gender identity, national origin, age, protected veteran status, or disability status.

Join us at Lockheed Martin, where your mission is ours. Our customers tackle the hardest missions. Those that demand extraordinary amounts of courage, resilience and precision. They’re dangerous. Critical. Sometimes they even provide an opportunity to change the world and save lives. Those are the missions we care about.

As a leading technology innovation company, Lockheed Martin’s vast team works with partners around the world to bring proven performance to our customers’ toughest challenges. Lockheed Martin has employees based in many states throughout the U.S., and Internationally, with business locations in many nations and territories.

Experience Level: Experienced Professional
Business Unit: ESS0385 MISSILES AND FIRE CONTROL
Relocation Available: Possible
Career Area: Manufacturing
Clearance Level: Secret
Type: Full-Time
Virtual Location: no

Work Schedule: 4X10A- 4 10 hr days Mon-Thurs; Fr/Sa/Su off